

5040 #6



PCT10

RAW SEQUENCE LISTING

DATE: 02/07/2002

PATENT APPLICATION: US/10/030,740

TIME: 14:41:12

Input Set : A:\SEQ LIST TEXT.txt

Output Set: N:\CRF3\02072002\J030740.raw

ENTERED

```

3 <110> APPLICANT: I.N.S.E.R.M.
4     MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DES WISSENSC
6 <120> TITLE OF INVENTION: Novel Neisseria meningitidis compounds and
7     anti-infection applications thereof
9 <130> FILE REFERENCE: 9893 SEQUENCES
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/030,740
C--> 12 <141> CURRENT FILING DATE: 2002-01-11
14 <160> NUMBER OF SEQ ID NOS: 116
16 <170> SOFTWARE: PatentIn Ver. 2.1
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 696
20 <212> TYPE: DNA
21 <213> ORGANISM: Neisseria meningitidis
23 <400> SEQUENCE: 1
24 atgaaactga aaaccttagc tttgaacttca ttgaccctgt tggcattggc cgcttgtagc 60
25 aaacaggctg aaaccagtgt tccggcagac agcgcccaaa gcagctcatc tgctccggca 120
26 gcccttgctg agttgaacga aggtgtgaac tacactgtat tgtctacgcc tattccgcaa 180
27 cagcaggccg gtaaaatcga agtattggaa tttttcggct acttctgccc gcattgcgcc 240
28 catcttgagc cggctcttgag cgagcacatc aaaacgttta aagacgatac ctatatgcgc 300
29 cgggagcatg tcgtgtgggg tgatgaaatg aaacctttgg cacgtttggc ggccgcagtg 360
30 gaaatggccg gtgaatcaga taaagccaac agccatattt tcgatgcgat ggttaatcaa 420
31 aaaatcaatc tggccgatac cgataccctg aaaaaaatggc tgtccgagca aacagcgttt 480
32 gacggcaaaa aagtattggc tgcatttgag gctcctgaaa gccaaagcgcg tgcggctcaa 540
33 atggaagagt tgaccaataa attccaaatc agcggcacac cgactgtgat tgteggcggc 600
34 aaataccaag ttgaatttaa agactggcag tccggtatga ccacgattga ccagttggtg 660
35 gataaagtac gcgaagagca gaaaaagccg caataa 696
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 231
39 <212> TYPE: PRT
40 <213> ORGANISM: Neisseria meningitidis
42 <400> SEQUENCE: 2
43 Met Lys Leu Lys Thr Leu Ala Leu Thr Ser Leu Thr Leu Leu Ala Leu
44 1 5 10 15
46 Ala Ala Cys Ser Lys Gln Ala Glu Thr Ser Val Pro Ala Asp Ser Ala
47 20 25 30
49 Gln Ser Ser Ser Ser Ala Pro Ala Ala Pro Ala Glu Leu Asn Glu Gly
50 35 40 45
52 Val Asn Tyr Thr Val Leu Ser Thr Pro Ile Pro Gln Gln Gln Ala Gly
53 50 55 60
55 Lys Ile Glu Val Leu Glu Phe Phe Gly Tyr Phe Cys Pro His Cys Ala
56 65 70 75 80
58 His Leu Glu Pro Val Leu Ser Glu His Ile Lys Thr Phe Lys Asp Asp
59 85 90 95

```

RAW SEQUENCE LISTING

DATE: 02/07/2002

PATENT APPLICATION: US/10/030,740

TIME: 14:41:12

Input Set : A:\SEQ LIST TEXT.txt

Output Set: N:\CRF3\02072002\J030740.raw

```

61 Thr Tyr Met Arg Arg Glu His Val Val Trp Gly Asp Glu Met Lys Pro
62      100      105      110
64 Leu Ala Arg Leu Ala Ala Ala Val Glu Met Ala Gly Glu Ser Asp Lys
65      115      120      125
67 Ala Asn Ser His Ile Phe Asp Ala Met Val Asn Gln Lys Ile Asn Leu
68      130      135      140
70 Ala Asp Thr Asp Thr Leu Lys Lys Trp Leu Ser Glu Gln Thr Ala Phe
71 145      150      155      160
73 Asp Gly Lys Lys Val Leu Ala Ala Phe Glu Ala Pro Glu Ser Gln Ala
74      165      170      175
76 Arg Ala Ala Gln Met Glu Glu Leu Thr Asn Lys Phe Gln Ile Ser Gly
77      180      185      190
79 Thr Pro Thr Val Ile Val Gly Gly Lys Tyr Gln Val Glu Phe Lys Asp
80      195      200      205
82 Trp Gln Ser Gly Met Thr Thr Ile Asp Gln Leu Val Asp Lys Val Arg
83      210      215      220
85 Glu Glu Gln Lys Lys Pro Gln
86 225      230
89 <210> SEQ ID NO: 3
90 <211> LENGTH: 696
91 <212> TYPE: DNA
92 <213> ORGANISM: Neisseria meningitidis
94 <400> SEQUENCE: 3
95 atgaaactga aaaccttagc ttgacttca ttgaccctgt tggcattggc cgcttgtagc 60
96 aaacaggctg aaaccagtgt tccggcagac agcgcccaaa gcagctcatc tgctccggca 120
97 gcccctgctg agttgaacga aggtgtgaac tacactgtat tgtctacgcc tattccgcaa 180
98 cagcaggccg gtaaaatcga agtattggaa ttttcggct acttctgccc gcattgcgcc 240
99 catcttgagc cggtcttgag cgagcacatc aaaacgttta aagacgatac ctatatgcgc 300
100 cgggagcatg tcgtgtgggg tgatgaaatg aaacctttgg cacgtttggc ggccgcagtg 360
101 gaaatggccg gtgaatcaga taaagccaac agccatattt tcatgacgat ggttaatcaa 420
102 aaaaatcaatc tggccgatac cgataccctg aaaaaatggc tgtccgagca aacagcgttt 480
103 gacggcaaaa aagtattggc tgcatttgag gctcctgaaa gccaagcgcg tgcggctcaa 540
104 atggaagagt tgaccaataa attccaaatc agcggcacac cgactgtgat tgctggcggc 600
105 aaataccaag ttgaatttaa agactggcag tccggtatga ccacgattga ccagttggtg 660
106 gataaagtac gcgaagagca gaaaaagccg caataa 696
108 <210> SEQ ID NO: 4
109 <211> LENGTH: 231
110 <212> TYPE: PRT
111 <213> ORGANISM: Neisseria meningitidis
113 <400> SEQUENCE: 4
114 Met Lys Leu Lys Thr Leu Ala Leu Thr Ser Leu Thr Leu Leu Ala Leu
115 1 5 10 15
117 Ala Ala Cys Ser Lys Gln Ala Glu Thr Ser Val Pro Ala Asp Ser Ala
118 20 25 30
120 Gln Ser Ser Ser Ser Ala Pro Ala Ala Pro Ala Glu Leu Asn Glu Gly
121 35 40 45
123 Val Asn Tyr Thr Val Leu Ser Thr Pro Ile Pro Gln Gln Gln Ala Gly
124 50 55 60
126 Lys Ile Glu Val Leu Glu Phe Phe Gly Tyr Phe Cys Pro His Cys Ala

```

RAW SEQUENCE LISTING

DATE: 02/07/2002

PATENT APPLICATION: US/10/030,740

TIME: 14:41:12

Input Set : A:\SEQ LIST TEXT.txt

Output Set: N:\CRF3\02072002\J030740.raw

```

127 65              70              75              80
129 His Leu Glu Pro Val Leu Ser Glu His Ile Lys Thr Phe Lys Asp Asp
130              85              90              95
132 Thr Tyr Met Arg Arg Glu His Val Val Trp Gly Asp Glu Met Lys Pro
133              100             105             110
135 Leu Ala Arg Leu Ala Ala Ala Val Glu Met Ala Gly Glu Ser Asp Lys
136              115             120             125
138 Ala Asn Ser His Ile Phe Asp Ala Met Val Asn Gln Lys Ile Asn Leu
139              130             135             140
141 Ala Asp Thr Asp Thr Leu Lys Lys Trp Leu Ser Glu Gln Thr Ala Phe
142 145              150             155             160
144 Asp Gly Lys Lys Val Leu Ala Ala Phe Glu Ala Pro Glu Ser Gln Ala
145              165             170             175
147 Arg Ala Ala Gln Met Glu Glu Leu Thr Asn Lys Phe Gln Ile Ser Gly
148              180             185             190
150 Thr Pro Thr Val Ile Val Gly Gly Lys Tyr Gln Val Glu Phe Lys Asp
151              195             200             205
153 Trp Gln Ser Gly Met Thr Thr Ile Asp Gln Leu Val Asp Lys Val Arg
154              210             215             220
156 Glu Glu Gln Lys Lys Pro Gln
157 225              230
160 <210> SEQ ID NO: 5
161 <211> LENGTH: 696
162 <212> TYPE: DNA
163 <213> ORGANISM: Neisseria meningitidis
165 <400> SEQUENCE: 5
166 atgaaactga aaaccttagc tttagacttca ttgaccctgt tggcattggc cgctttagtc 60
167 aaacaggctg aaaccagtgt tccggcagac agcgcccaaa gcagctcatc tgctccggca 120
168 gccctgtctg agttgaacga aggtgtgaac tacactgtat tgtctacgcc tattccgcaa 180
169 cagcaggccg gtaaaatcga agtattggaa tttttcggct acttctgccc gcattgcgcc 240
170 catcttgagc cggtcttgag cgagcacatc aaaacgttta aagacgatac ctatatgcgc 300
171 cgggagcatg tcgtgtgggg tgatgaaatg aaacctttgg cacgtttggc ggccgcagtg 360
172 gaaatggccg gtgaatcaga taaagccaac agccatattt tcgatgcgat ggttaatcaa 420
173 aaaatcaatc tggccgatac cgataccctg aaaaaatggc tgtccgagca aacagcgttt 480
174 gacggcaaaa aagtattggc tgcatttgag gctcctgaaa gccaaagcgc tgcyggtcaa 540
175 atggaagagt tgaccaataa attccaaatc agcggcacac cgactgtgat tgcggcggc 600
176 aaataccaag ttgaatttaa agactggcag tccggtatga ccacgattga ccagttggtg 660
177 gataaagtac gcgaagagca gaaaaagccc caataa 696
179 <210> SEQ ID NO: 6
180 <211> LENGTH: 231
181 <212> TYPE: PRT
182 <213> ORGANISM: Neisseria meningitidis
184 <400> SEQUENCE: 6
185 Met Lys Leu Lys Thr Leu Ala Leu Thr Ser Leu Thr Leu Leu Ala Leu
186 1 5 10 15
188 Ala Ala Cys Ser Lys Gln Ala Glu Thr Ser Val Pro Ala Asp Ser Ala
189 20 25 30
191 Gln Ser Ser Ser Ser Ala Pro Ala Ala Pro Ala Glu Leu Asn Glu Gly
192 35 40 45

```

RAW SEQUENCE LISTING

DATE: 02/07/2002

PATENT APPLICATION: US/10/030,740

TIME: 14:41:12

Input Set : A:\SEQ LIST TEXT.txt

Output Set: N:\CRF3\02072002\J030740.raw

```

194 Val Asn Tyr Thr Val Leu Ser Thr Pro Ile Pro Gln Gln Gln Ala Gly
195      50      55      60
197 Lys Ile Glu Val Leu Glu Phe Phe Gly Tyr Phe Cys Pro His Cys Ala
198 65      70      75      80
200 His Leu Glu Pro Val Leu Ser Glu His Ile Lys Thr Phe Lys Asp Asp
201      85      90      95
203 Thr Tyr Met Arg Arg Glu His Val Val Trp Gly Asp Glu Met Lys Pro
204      100      105      110
206 Leu Ala Arg Leu Ala Ala Ala Val Glu Met Ala Gly Glu Ser Asp Lys
207      115      120      125
209 Ala Asn Ser His Ile Phe Asp Ala Met Val Asn Gln Lys Ile Asn Leu
210      130      135      140
212 Ala Asp Thr Asp Thr Leu Lys Lys Trp Leu Ser Glu Gln Thr Ala Phe
213 145      150      155      160
215 Asp Gly Lys Lys Val Leu Ala Ala Phe Glu Ala Pro Glu Ser Gln Ala
216      165      170      175
218 Arg Ala Ala Gln Met Glu Glu Leu Thr Asn Lys Phe Gln Ile Ser Gly
219      180      185      190
221 Thr Pro Thr Val Ile Val Gly Gly Lys Tyr Gln Val Glu Phe Lys Asp
222      195      200      205
224 Trp Gln Ser Gly Met Thr Thr Ile Asp Gln Leu Val Asp Lys Val Arg
225      210      215      220
227 Glu Glu Gln Lys Lys Pro Gln
228 225      230
231 <210> SEQ ID NO: 7
232 <211> LENGTH: 696
233 <212> TYPE: DNA
234 <213> ORGANISM: Neisseria meningitidis
236 <400> SEQUENCE: 7
237 atgaaactga aaaccttagc tttgacttca ttgaccctgt tggcattggc cgcttgtagc 60
238 aaacaggctg aaaccagtgt tccggcagac agcgcccaaa gcagctcatc tgctccggca 120
239 gccctgtgct agttgaacga aggtgtgaac tacactgtat tgtctacgcc tattccgcaa 180
240 cagcaggccg gtaaaatcga agtattggaa tttttcggct acttctgccc gcattgcgcc 240
241 catcttgagc cggctctgag cgagcacatc aaaacgttta aagacgatac ctatatgcgc 300
242 cgggagcatg tcgtgtgggg tgatgaaatg aaacctttgg cacgtttggc ggccgcagtg 360
243 gaaatggccg gtgaatcaga taaagccaac agccataatt tcgatgcatg ggttaatcaa 420
244 aaaatcaatc tggccgatac cgataccctg aaaaaatggc tgtccgagca aacagcgttt 480
245 gacggcaaaa aagtattggc tgcatttgag gtcctgaaa gccaaagcgc tgccggctcaa 540
246 atggaagagt tgaccaataa attccaaaac agcggcacac cgactgtgat tgcggcggc 600
247 aaataccaag ttgaatttaa agactggcag tccggtatga ccacgattga ccagttggtg 660
248 gataaagtac gcgaagagca gaaaaagccg caataa 696
250 <210> SEQ ID NO: 8
251 <211> LENGTH: 231
252 <212> TYPE: PRT
253 <213> ORGANISM: Neisseria meningitidis
255 <400> SEQUENCE: 8
256 Met Lys Leu Lys Thr Leu Ala Leu Thr Ser Leu Thr Leu Leu Ala Leu
257 1      5      10      15
259 Ala Ala Cys Ser Lys Gln Ala Glu Thr Ser Val Pro Ala Asp Ser Ala

```

RAW SEQUENCE LISTING

DATE: 02/07/2002

PATENT APPLICATION: US/10/030,740

TIME: 14:41:12

Input Set : A:\SEQ LIST TEXT.txt

Output Set: N:\CRF3\02072002\J030740.raw

```

260          20          25          30
262 Gln Ser Ser Ser Ser Ala Pro Ala Ala Pro Ala Glu Leu Asn Glu Gly
263          35          40          45
265 Val Asn Tyr Thr Val Leu Ser Thr Pro Ile Pro Gln Gln Gln Ala Gly
266          50          55          60
268 Lys Ile Glu Val Leu Glu Phe Phe Gly Tyr Phe Cys Pro His Cys Ala
269 65          70          75          80
271 His Leu Glu Pro Val Leu Ser Glu His Ile Lys Thr Phe Lys Asp Asp
272          85          90          95
274 Thr Tyr Met Arg Glu His Val Val Trp Gly Asp Glu Met Lys Pro
275          100          105          110
277 Leu Ala Arg Leu Ala Ala Ala Val Glu Met Ala Gly Glu Ser Asp Lys
278          115          120          125
280 Ala Asn Ser His Ile Phe Asp Ala Met Val Asn Gln Lys Ile Asn Leu
281          130          135          140
283 Ala Asp Thr Asp Thr Leu Lys Lys Trp Leu Ser Glu Gln Thr Ala Phe
284 145          150          155          160
286 Asp Gly Lys Lys Val Leu Ala Ala Phe Glu Ala Pro Glu Ser Gln Ala
287          165          170          175
289 Arg Ala Ala Gln Met Glu Glu Leu Thr Asn Lys Phe Gln Ile Ser Gly
290          180          185          190
292 Thr Pro Thr Val Ile Val Gly Gly Lys Tyr Gln Val Glu Phe Lys Asp
293          195          200          205
295 Trp Gln Ser Gly Met Thr Thr Ile Asp Gln Leu Val Asp Lys Val Arg
296          210          215          220
298 Glu Glu Gln Lys Lys Pro Gln
299 225          230

```

302 <210> SEQ ID NO: 9

303 <211> LENGTH: 696

304 <212> TYPE: DNA

305 <213> ORGANISM: Neisseria meningitidis

307 <400> SEQUENCE: 9

```

308 atgaaactga aaaccttagc tttgacttca ttgacctgtg tggcattggc cgcttgtagc 60
309 aaacaggctg aaaccagtgt tccggcagac agcgcccaa gcagctcatc tgctccggca 120
310 gcccttgctg agttgaacga aggtgtgaac tacactgtat tgtctacgcc tattccgcaa 180
311 cagcaggccg gtaaaatcga agtattggaa tttttcggct acttctgccc gcattgcgcc 240
312 catcttgagc cggctctgag cgagcacatc aaaacgttta aagacgatac ctatatgcgc 300
313 cgggagcatg tcgtgtgggg tgatgaaatg aaacctttgg cacgtttggc ggccgcagtg 360
314 gaaatggccg gtgaatcaga taaagccaac agccatattt tcgatgcgat ggttaatcaa 420
315 aaaatcaatc tggccgatac cgataacctg aaaaaatggc tgtccgagca aacagcgttt 480
316 gacggcaaaa aagtattggc tgcatttgag gtcctgaaa gccaaagcgc tgcggtctca 540
317 atggaagagt tgaccaataa attccaaatc agcggcacac cgactgtgat tgcggcggc 600
318 aaataccaag ttgaatttaa agactggcag tccggtatga ccacgattga ccagttggtg 660
319 gataaagtac gcgaagagca gaaaaagccg caataa 696

```

321 <210> SEQ ID NO: 10

322 <211> LENGTH: 231

323 <212> TYPE: PRT

324 <213> ORGANISM: Neisseria meningitidis

326 <400> SEQUENCE: 10

VERIFICATION SUMMARY

DATE: 02/07/2002

PATENT APPLICATION: US/10/030,740

TIME: 14:41:13

Input Set : A:\SEQ LIST TEXT.txt

Output Set: N:\CRF3\02072002\J030740.raw

L:11 M:270 C: Current Application Number differs, Replaced Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date